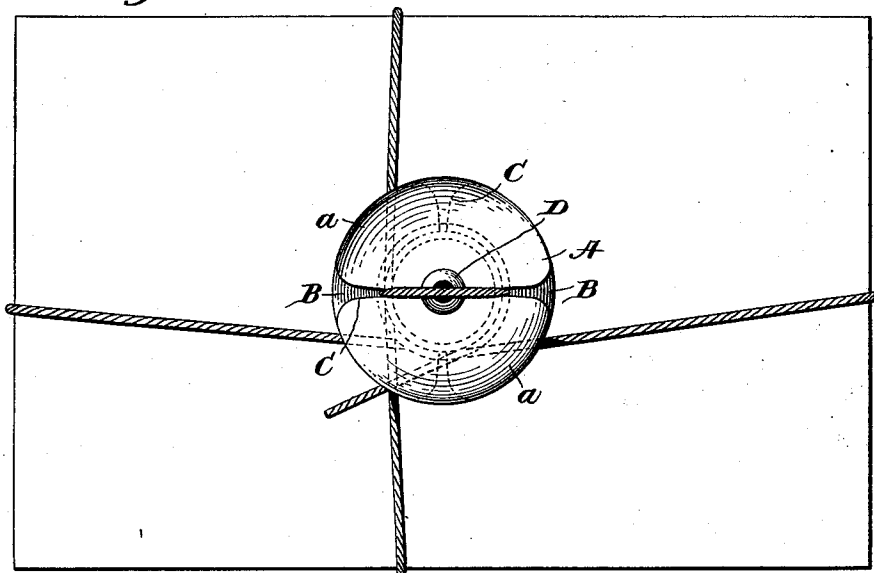


D. B. G. ROSE.  
PACKAGE TIE.  
APPLICATION FILED NOV. 26, 1909.

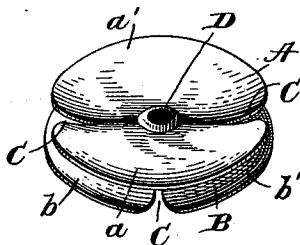
1,001,079.

Patented Aug. 22, 1911.

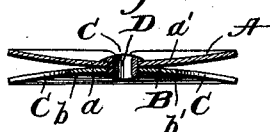
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses:

*James Hutchinson*  
*Carroll A. Key*

Inventor:

*David B. G. Rose*  
By *Arthur V. Milan*, Attorney

# UNITED STATES PATENT OFFICE.

DAVID B. G. ROSE, OF LOUISVILLE, KENTUCKY.

## PACKAGE-TIE.

1,001,079.

Specification of Letters Patent. Patented Aug. 22, 1911.

Application filed November 26, 1909. Serial No. 529,978.

*To all whom it may concern:*

Be it known that I, DAVID B. G. ROSE, a citizen of the United States, residing at Louisville, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Package-Ties, of which the following is a specification.

The present invention relates to package ties and though susceptible of a large variety of adaptations, is primarily designed for use in connection with the bundling of mail for the railway mail service and for Post Office department use generally.

It is the object of the present invention to provide a device overcoming existing defects and to this end includes a cord holding attachment which is reversible in character, that is, one having like or similar surfaces, and each of said surfaces having cord engaging characteristics. The advantage of such a construction is that the operator may place the attachment either side uppermost on the package of envelopes or the like, when it will be in position to receive the free end of the cord, with the incident saving of time, which, as is obvious, is a most important factor in the assortment and delivery of mail matter, the primarily intended use for which the present device is devised.

More particularly, the invention includes a plurality of dish-shaped disks secured together conveniently centrally by suitable means with the concaved surfaces outermost and each of said disks having one or more cord engaging slots, with the slots of one disk arranged out of registration with those of the cooperating disk, together with a cord or similar member secured between the disks, conveniently to the connecting means for the latter.

Further, the invention contemplates a structure which is not only efficient and a time saver in operation, but one cheap to manufacture and pleasing in appearance.

The invention also includes novel details in the construction and arrangement of the parts, all of which will be more particularly referred to hereinafter in the detail description, for a clear understanding of which, however, reference is directed to the accompanying drawings which form a part hereof, and wherein I have disclosed, for the purpose of illustration, a satisfactory embodiment of the invention.

In the said drawings, Figure 1 is a plan

view of the device as applied to a package. Fig. 2 is a perspective view, and Fig. 3 is a longitudinal section.

Referring now more particularly to the drawings, wherein like reference characters refer to like parts throughout the several views, A and B are main or body members conveniently in the form of dish-shaped or concaved disks. These disks are preferably of metallic formation, and for the purpose of illustration, are shown substantially circular in configuration and of approximately the same size, though it is to be borne in mind that I have in contemplation disks of various shapes and designs. Each disk is provided with one or more peripheral slots C, preferably two in number, and oppositely disposed, whereby the disk is divided into a pair of segmental wings, those of the disk A being indicated by the reference characters *a* and *a'*, and those of the member B by the characters *b* and *b'* respectively. The members A and B are secured together in any desired manner, conveniently by a rivet or rivets D, with the concaved surface of each outermost. The securing means preferably retains the members A and B relatively immovable, to the extent of preventing relative bodily movement. This arrangement makes possible the fastening and maintaining of the slots of the respective disks out of registration with the slots of the cooperating disk, one of the important features of the invention residing in having each slotted portion of the disks overlying a wing or solid portion of the cooperating disk.

The walls surrounding each of the slots C are curved at their outer extremity, whereby the connection of said walls with the peripheral walls of the wings will be free from sharp edges, which might tend to mar or damage the tied package, as well as cut or wear the cord or similar member to be used in connection with my device. The said cord may, and preferably does, constitute a fixed part of the attachment, that is, the same is carried thereby for convenient use therewith, the cord being secured by tying around the securing means D between the respective disks.

Preferably, each of the disks is of the same size and shape, and the exposed surfaces are free from projections or protuberances, since the only retaining means for the free end of the cord resides in the abutting

convex surfaces of the disk and the cord engaging slots D.

The convex contour of the abutting surfaces of the disks presents a continuous 5 wedge for the reception of the free end of the cord in the tying up process, and the cord engaging slots afford means for retaining the cord in wedged engagement between the disks, to thereby prevent accidental separation or unwinding of the cord. 10

In use, the operator grasps a bundle of letters or the like, takes the device with the attached cord and places the same, without discrimination, either side uppermost, upon 15 the package. He thereupon proceeds to pass the cord around the sides of the package and between the convex surfaces of the disks, thereupon giving to the cord a turn or a partial turn around the securing rivet 20 of the disks, thence outwardly beyond the disks and around the ends of the package, again between the disks and through one of the cord engaging slots C in the upper disk. As an additional security, and to 25 prevent accidental separation of the cord from the slot and the consequent unwinding of the same while the packages are in transit and in rubbing contact with one another, the cord may be caused to pass from one 30 slot of the upper disk, over the upper surface of the upper disk, thence through the opposite slot of said disk, and finally under the upper disk into frictional contact with the abutting surfaces of the disks.

As previously pointed out an important 35 feature of the invention resides in having each slotted portion of the disks overlie a wing or solid portion of the cooperating disk, this for the reason that in use a relatively thin cord is usually employed, and 40 in operation, should the slots in the upper and lower wings be in alinement, the cord in being applied to the slot of the upper wing is very apt to find its way into the slot 45 of the lower wing, which would impede the hasty application of the cord, which is essential when the use to which the invention is put is borne in mind, and the walls

surrounding the slot of the lower wing by its engagement with the cord in its applica- 50 tion would tend to quickly tear and break the same in use. In my invention a smooth bearing surface below the upper or exposed slot is provided which assists in the ready application of the cord to said slot. 55

I claim:

1. In a device of the character described, two connected disk members, each disk member comprising two connected wings separated from one another by oppositely 60 disposed peripheral slots, the wings flaring outwardly from their point of connection with one another, and the wings of each section overlying the slots of the other section. 65

2. A reversible cord fastener comprising a pair of connected disks with the outer edges separated from one another whereby the contiguous surfaces thereof constitute a cord receiving wedge, and means carried by 70 each disk for engaging the free end of a cord, the engaging means of one disk being out of line with the engaging means of the other disk.

3. A package tie comprising two connected members with flared peripheries and a slitted portion in the periphery of each member, the slitted portions of the respective members being out of line. 75

4. A package tie comprising two connected disks connected together whereby their convex surfaces contact for frictionally engaging an interposed cord or the like, each of said disks having a plurality of oppositely disposed peripheral slotted portions, and the slotted portions of one disk being out of registration with the slotted 85 portion of the cooperating disk, and a cord secured between the disks.

In testimony whereof I affix my signature 90 in presence of two witnesses.

DAVID B. G. ROSE.

Witnesses:

E. R. MURRELL,  
JAS. F. VEECH.